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1	TRANSTHE UNITED STATES PATENT AND TRADEMARK OFFICE									
2	APPLICANT	:	SIMON	J. BROADLEY) (L	M			
3	SERIAL NO.	:	09/478,5	578)	l	1 /		
5	FILED	:	January	6, 2000) Ex. K. No)				
5 6 7	FOR:	:	FREQUI	SCILLATING VA ENCY CLOSED D AMPLIFIER) Group 28)))	317	11 Pl 47 //		
8	CLASS D AMPLIFIER CONTINUING PROSECUTION APPLICATION (CPA)									
9		CONTIN		MINARY AMENI		ON (CFA)				
10	Hon. Commissi	oner of					160			
11	Hon. Commissioner of Patents and Trademarks, Washington, D.C. 20231									
12	,			•				CE-1		
13	Dear Sir:						- 21 H			
14	12: 11	101:	4.4.0			_	1 2000			
15	Kindly cancel Claims 1 to 3 and insert new Claims 4 to 6.									
16 17										
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23	I hereby certify t									
24	deposited with the United States Postal Service as EXPRESS MAIL NO. ET 613 018 752US									
25	in an envelope addressed to: HON. COMMISSIONER OF PATENTS AND TRADEMARKS, Washington,									
26	D.C. 20231 on 1			J ,						
27 28	TOD R. NISSLE	Reg. No.	29,241	November 5 DATE	5, 2001					
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The foregoing amendments are reflected in the attached APPENDIX I: Replacements, Deletions, Additions and APPENDIX II: Marked up Versions.

COMMENTS

The new Claims 4 to 6 specify that the amplifier circuit utilizes is a noninverting, negative feedback error amplifier circuit as indicated by reference character 14 in Fig. 2 of the application. A non-inverting, negative feedback error amplifier circuit does not appear to be utilized in the Higashiyama et al. or Pullen et al (U.S. 6,107,875) references of record.

Respectfully submitted,

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Attorney's Docket No. 995-P-3



APPENDIX I: Replacements, Deletions, Additions

REPLACEMENTS

l.	<u>Title</u> : None.	
11 .	Specification: None.	
III.	Claims: None.	
IV.	Abstract: None.	
		DELETIONS
1.	<u>Title</u> : None.	
II.	Specification: None.	
III.	Claims	
	Delete Claims 1 to 3.	
IV.	Abstract: None.	
		ADDITIONS
l.	<u>Title</u> : None.	
II.	Specification: None	
111	Claims	

- 4. A self oscillating audio Class D amplifier, comprising
- (a) a detector for receiving a PVM waveform control signal and producing a digital waveform switching signal to activate one of a pair including a positive switch and a negative switch to correct gain produced by the Class D amplifier;
- (b) an output stage including a positive switch and a negative switch, said output stage receiving said switching signal and activating one of said switches to produce a digital driving signal;
- (c) an output filter to receive said digital driving signal, remove switching noise and provide an amplified audio analog output signal to drive a load;
- (d) a non-inverting, negative feedback error amplifier circuit to
 - (i) receive said amplified a halog output signal and compare said output signal to said input signal for gain-correction purposes, and
 - (ii) produce said PVM waveform control signal.
- 5. A self oscillating audio Class D amplifier, comprising
- (a) a detector for receiving a PVM waveform control signal and producing a digital waveform switching signal to activate one of a pair including a positive switch and a negative switch to correct gain produced by the Class D amplifier;
- (b) an output stage including a positive switch and a negative switch, said output stage receiving said switching signal and activating one of said switches to produce a digital driving signal;
- (c) an output filter to receive said digital driving signal, remove switching noise and provide an amplified audio analog-output signal to drive a load;
- (d) a non-inverting, negative feedback error amplifier circuit to
 - (i) receive said amplified analog output signal and compare said output signal to said input signal for gain-correction purposes, and
 - (ii) produce said PVM waveform control signal;

the operation of said amplifier slowing as the magnitude of the error in gain increases.

- 6. A self oscillating audio Class D amplifier, comprising
- (a) a variable frequency zero crossing detector for receiving a PVM waveform control signal and producing a digital waveform switching signal to activate one of a pair including a positive switch and a negative switch to correct gain produced by the Class D amplifier;
- (b) an output stage including a positive switch and a negative switch, said output stage receiving said switching signal and activating one of said switches to produce a digital driving signal;
- (c) an output filter to receive said digital driving signal, remove switching noise and provide an amplified audio analog output signal to drive a load;
- (d) a non-inverting, negative feedback, error amplifier circuit to
 - (i) receive said amplified analog output signal and compare said output signal to said input signal for gain-correction purposes, and
- (ii) produce said PVM waveform control signal; the operation of said amplifier slowing as the magnitude of the error in gain increases.

IV. Abstract: None.

APPENDIX II: Marked Up Versions

Marked Up Versions

I. <u>Title</u>: None.

II. <u>Specification:</u> None.

III. <u>Claims</u>: None.

IV. Abstract: None.